



August 24, 2018

Tony Howes
Project Manager
Utah Department of Environmental Quality
Division of Environmental Response and Remediation
195 North 1950 West
P.O. Box 144840
Salt Lake City, Utah 84114-4840

**Re: Final First Quarter (February 16, 2018) Sampling and Results Summary
Five Points PCE Plume Site
Davis County, Utah
Work Assignment No. 06 under Contract No. 146237**

Dear Mr. Howes:

This letter report summarizes and presents the results of the quarterly sampling conducted at the Five Points PCE Plume Site in February 2018, which constitutes the first quarter of quarterly sampling to be conducted under this work assignment.

Samples were collected from 16 of the 19 site monitoring wells, as shown on Figure 1 and Table 1. MW-102 was not sampled due to its initial non-detect result and because MW-103 provides bounding of the PCE plume in that area. MW-106S and MW-107S were not sampled also due to their initial non-detect results and because they are completed above the PCE plume.

Samples were collected in accordance with the project Sampling and Analysis Plan using HydraSleeves, which were deployed in the wells on January 17, 2018. Water levels were recorded at each well prior to deploying the HydraSleeves. The HydraSleeves were set at the depths where the highest concentrations of PCE were previously detected, which for MW-103 and MW-105 is at the water table; for all other wells (except MW-101) it is the middle of the screened interval, which was set based on the highest detected PCE concentrations observed during drilling of the well. For MW-101, the highest concentration observed during drilling was at the water table, which is where the top of the 30 foot screen was set, the idea being that the long screen would allow for mining of the water table, which is what was happening at the time. However, water levels in the vicinity of MW-101 have actually increased, flooding the screen. Therefore, the HydraSleeve at MW-101 was set approximately five feet below the water table.

The HydraSleeves were pulled and samples collected from them on February 16, 2018. Field water quality parameters (pH, temperature, conductivity, ORP, and DO) were measured at each sample location using a YSI Pro Plus multi-probe meter and recorded on the HydraSleeve Sampling form. Samples were submitted to ALS Laboratories in Salt Lake City for volatile organic compound (VOC) analysis by EPA Method SOM02.4. The associated field forms are included in Attachment 1.

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Table 1 summarizes the PCE and daughter product results for this quarter of sampling; and for comparison purposes, Table 2 summarizes the PCE concentrations at each monitoring well and sampled municipal well over time. The analytical data package and Excel file electronic data deliverable from ALS, including all of the analytical results, are included in Attachment 2. The data was validated by an AECOM chemist in accordance with the Quality Assurance Project Plan (QAPP). The data was found to be useable as qualified, with the majority of the qualifications being estimated (J), based on data that was reported between the method detection limit (MDL) and the reporting limit (RL). Several tentatively identified compound (TIC) results were also qualified as estimated (J) and tentatively identified and estimated (NJ). See Attachment 3 for the data validation report.

Figure 1 presents the contoured PCE plume based on these February 2018 results, as well as the footprint of the PCE plumes for the previous sampling events conducted at the site on the full set of site wells. The February 2018 groundwater elevations at each well are also shown, along with the associated groundwater contours. PCE and groundwater contours were prepared using the Surfer Version 15 Contouring Package, followed by manual interpretive editing and smoothing. The contouring package takes the point data (in this case water level elevations or PCE concentrations and piezometer locations) and interpolates them to a regular grid using the kriging interpolators available in Surfer; contours are then generated from the interpolated grid. These computer generated contours were manually smoothed and edited to honor known data points and to reflect professional judgment in areas of sparse data. In generating the groundwater contours, where nested wells exist, the deep wells were used to produce the contours.

Figure 1 also includes PCE concentrations for municipal wells (Woods Cross #4, Honeywell, 1100 N Well, and New Well) that were sampled by the respective municipality during the same time frame as the sampling conducted with Hydrasleeves. However, these samples are not collected from discrete depth intervals like the Hydrasleeve samples. They are collected across large screened intervals that would likely collect water from unimpacted intervals as well as impacted intervals, as such, they are not directly comparable to the Hydrasleeve samples and are, therefore, not used in the PCE contouring effort.

We appreciate the continued opportunity to provide professional services to your agency. If you have any questions regarding this deliverable, please do not hesitate to contact me at (801) 904-4073.

Sincerely,

AECOM



Tammi Messersmith, PE
Project Manager

cc: Sam Garcia, EPA



Attachments:

Tables:

Table 1 – Five Points PCE and Daughter Product Quarterly Data, February 16, 2018

Table 2 – Five Points PCE Concentrations Over Time

Figures:

Figure 1 – Comprehensive Site Map Showing PCE Plume (August 2012 to February 2018)

Attachments:

Attachment 1 – Field Forms

Attachment 2 – ALS Analytical Data Package and Electronic Data Deliverable for February 16, 2018

Attachment 3 – Data Validation Report

Tables

Table 1
Five Points PCE and Daughter Product Quarterly Data
February 16, 2018

Sample ID	Sample Depth (ft bgs)	Analyte	Result ⁽¹⁾	(µg/L)
MW-101	150	Tetrachloroethene	13	D
		Trichloroethene	0.17	J
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U
MW-101 ⁽²⁾	150	Tetrachloroethene	13	
		Trichloroethene	0.1	J
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U
MW-103	115	Tetrachloroethene	0.17	J
		Trichloroethene	<0.50	U
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U
MW-104	119	Tetrachloroethene	5.0	
		Trichloroethene	<0.50	U
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U
MW-105	145	Tetrachloroethene	2.6	
		Trichloroethene	<0.50	U
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U
MW-106D	194	Tetrachloroethene	0.38	J
		Trichloroethene	<0.50	U
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U
MW-106I	144	Tetrachloroethene	2.0	
		Trichloroethene	<0.50	U
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U
MW-107D	199	Tetrachloroethene	2.0	
		Trichloroethene	<0.50	U
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U
MW-107I	144	Tetrachloroethene	0.5	
		Trichloroethene	<0.50	U
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U
MW-108D	213	Tetrachloroethene	3.0	
		Trichloroethene	<0.50	U
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U
MW-108I	148	Tetrachloroethene	0.35	J
		Trichloroethene	<0.50	U
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U
MW-109D	218	Tetrachloroethene	0.98	
		Trichloroethene	<0.50	U
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U
MW-109I	168	Tetrachloroethene	0.73	
		Trichloroethene	<0.50	U
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U
MW-110D	300	Tetrachloroethene	0.67	
		Trichloroethene	<0.50	U
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U
MW-110I	207	Tetrachloroethene	<0.50	U
		Trichloroethene	<0.50	U
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U
MW1-2004	108	Tetrachloroethene	3.7	
		Trichloroethene	<0.50	U
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U
MW2-2004	110	Tetrachloroethene	0.19	J
		Trichloroethene	<0.50	U
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U
Trip Blank	NA	Tetrachloroethene	<0.50	U
		Trichloroethene	<0.50	U
		cis-1,2-Dichloroethene	<0.50	U
		Vinyl chloride	<0.50	U

Notes:
(1) - Bold values indicate PCE concentrations exceed 5 µg/L
(2) - Field duplicate collected at MW-101
µg/L - Micrograms per liter
bgs - Below ground surface
ft - Feet
PCE - Tetrachloroethene
D - Laboratory diluted sample
U - Below laboratory detection limit

Table 2
Five Points PCE Concentrations Over Time

Collection Date		09/20/10	01/27/11	11/16/11	11/17/11	02/02/12	04/06/12	05/15/12	08/30/12	09/05/12	11/28/12	02/26/13	01/28/14	05/14/14	08/14/14	11/13/14	02/11/15	02/16/18
Location	Sample depth (ft bgs) ⁽¹⁾	PCE µg/L ⁽²⁾																
MW-101	150 (153-160)	32	30			12		8.1	1.4		2.3	2.1	14	9.4	24 D	18	52 DB	13 D
MW-101	170	14																
MW-101	180	7.1																
MW-102	123	<0.5																
MW-103	115 (108-116)	0.13	<0.5 U			0.19 U		0.19 J	0.35 J		0.15 J	<0.5	0.14 J	0.16 J	<0.5 U	<0.5 U	0.17 J	0.17 J
MW-104	119 (119-120)		19			26		14	18		14	21	18	17	14	12	10	5.0
MW-105	145 (135-146)		0.9			0.76		0.26 J	0.18 J		0.18 J	0.16 J	0.36 J	0.54	1.1	1.3	0.97	2.6
MW-106S	66		<0.5			<0.5												
MW-106I	144 (145-146)					9.6		7.8		8.4	4.6	6.7	7.3	4.9	5.2	6.1	1.8 B	2.0
MW-106D	194 (192-197)					1		1.2 J	2.2		2.1	2.7	2.2	2.7	2	2.2	0.64 B	0.38 J
MW-107S	66		<0.5			<0.5												
MW-107I	144 (145)					1.2		1	1.1		1.2	1.2	1.3	0.36 J	0.87	1.1	0.94 B	0.5
MW-107D	199 (200-203)					1.4		1.3	1.7		1.5	2.3	1.7	1.3	1.5	2	0.89 B	2.0
MW-108I	148 (149)								1		0.71	0.88	0.93	0.78	1.1	1.1	0.98 B	0.35 J
MW-108D	213 (214)								7.2 J		4.7	6.5	5.9	6.6	5.5	5.5	4.9 B	3.0
MW-109I	168 (167-169)								0.59		1.2	1.5	1	1.2	0.38 J	1.7	0.36 JB	0.73
MW-109D	218 (215-230)								0.26 J		0.21 J	0.6	0.66	0.83	0.84	0.69	0.58 B	0.98
MW-110I	207 (206-208)								0.3 J		<0.5	0.12 J	<0.5	0.12 J	<0.5 U	<0.5 U	<0.5 U	<0.5 U
MW-110D	300 (298-301)								2.2		2.2	2.6	2	0.78	1.2	1.5	0.53 B	0.67
MW-1-2004	108 (101-112)	9.3	3.6			39		13	46		22	21	9.5	15	Dry	Dry	4.7 B	3.7
MW-2-2004	110 (104-114)	0.73	<0.5 U			0.92		1.5	1.4		1	2.2	0.25 J	0.26 J	Dry	0.34	0.24 JB	0.19 J
WC#2	110				<0.5													
WC#2	128				<0.5													
WC#2	148			<0.5														
WC#2	158			<0.5														
WC#2	180			<0.5														
Freda Well	196						2.8	2.5	3.6		2.5	2.7						
Freda Well	221						2.6 J	5.4	3.5		2.8	5.6						
Freda Well	336						3.9	3.8	2.8		3	5.6						
Freda Well	366						1.6	2.2										
Freda Well	421						2	2.2										

Notes:

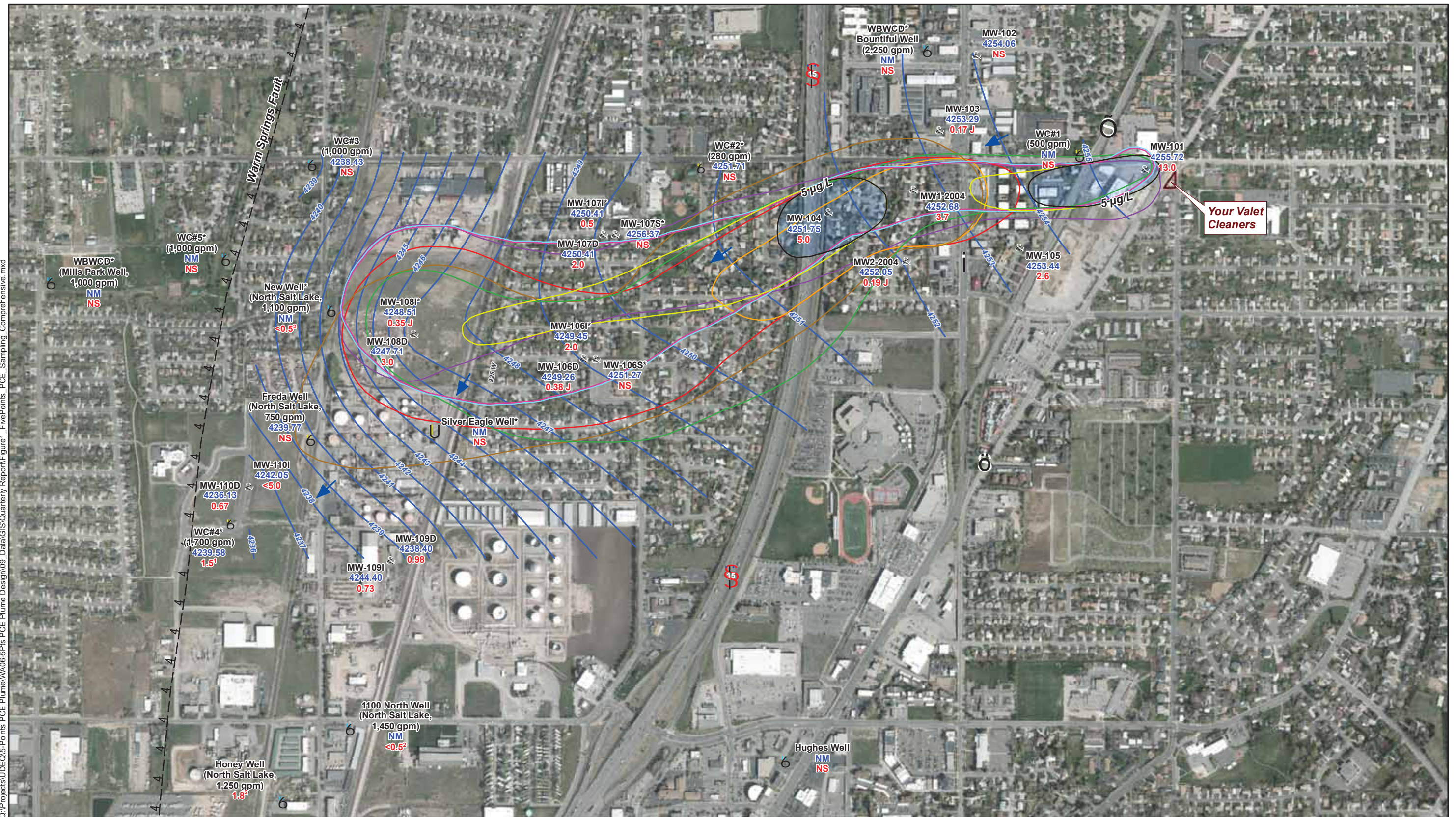
- ⁽¹⁾ - Most recent depth (historical range in parentheses, excluding most recent depth)
- ⁽²⁾ - Bold values indicate PCE concentrations exceed 5 µg/L. Shaded cells indicate the well was not sampled on that date.

PCE - Tetrachloroethene
ft - feet
bgs - below ground surface
µg/L - micrograms per liter

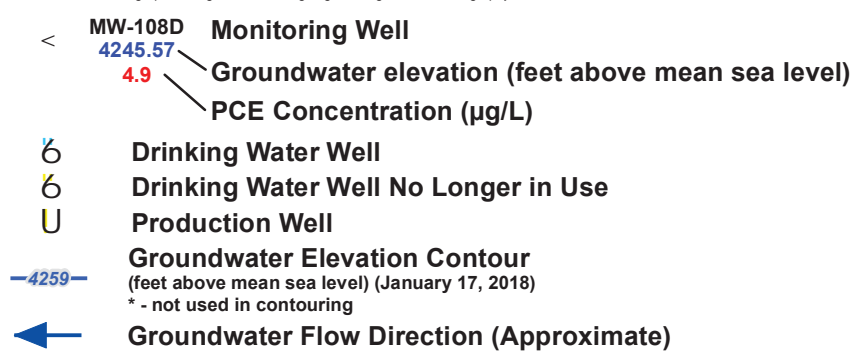
J - Estimated value based on results of the data validation
U - Below laboratory detection limit based on results of the data validation
D - Laboratory diluted samples
B - Analyte was found in the associated method blank
JB - Estimated quantity. Analyte was found in the associated method blank.

Figure

Q:\Projects\UDEQ\5-Points PCE Plume\WVA06-5Pts PCE Plume Design\09_Data\GIS\Quarterly Report\Figure1_FivePoints_PCE_Sampling_Comprehensive.mxd

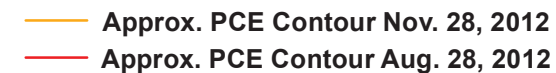
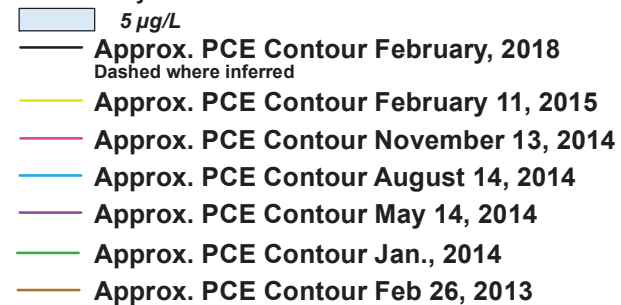


Source Aerial Photograph : ImageService//image.agrc.utah.gov/AerialPhotography_Color/HRO2012_Color6inch_4Band



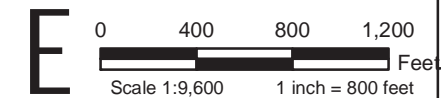
PCE Concentrations (February 16, 2018)

Based on HydraSleeve Results



Notes:
Most recent PCE data shown;
see Table 2 for historical PCE data
1Sampled 2-8-18
2Sampled 3-20-18

Notes:
gpm - gallons per minute
µg/L - micrograms per liter
PCE - tetrachloroethene
NM - not measured
NS - not sampled
ND - non-detect
J - estimated result



**Comprehensive Site Map
Showing PCE Plume
(August 2012 to February 2018)**

**Five Points PCE Plume
Davis County, Utah**



Utah Department of
Environmental Quality
Division of Environmental
Response and Remediation



Figure 1



Attachment 1
Field Forms

1/17/18 5 points wells & HS deployment

730 C. Howell pick up & depart office

800 Check tire pressure

830 arrive @ MW-101 & shut WL'S

note MW-101 had w/s off on arrival, flushmount damaged, well OK, needs flushmount replacement.

1325 Finish deploying HS & measurements on 5-point wells WL from JD

1410 WC4 28' (new tri-sensor can not put tape in or will get stuck)

1420 WC3 33.21'

1430 WC5 18.24'

1440 WC2 70.63'

all we wells off JD with let me into wells.

1500 Freda 35.55' from measuring point

point is under blue plate, measured down hole w/ tri-sensor.

John Loyola is contact to get in Freda well.

2/16/18

715 C. Howell calibrates

1/2 hr for plus & off

- collect sample containers and sample equipment, loaded up truck

830 C. Howell on site

check 28°F

- purchase ice for samples

835 Collect SP-MW101-144151

and FD SP-MW101-144151-T @ 28°

910 Collect SP-MW105-144146

M5/M6D extra volume

940 Collect SP-MW103-114116

955 Collect SP-MW102-2004-109111

1010 Collect SP-MW101-2004-107109

1025 Collect SP-MW104-115120

1045 Collect SP-MW105-200208

1055 Collect SP-MW1102-299361

1120 Collect SP-MW1092-167169

1130 Collect SP-MW109D-212219

1200 Collect SP-MW1083-147149

1210 Collect SP-MW108D-212214

1245 Collect SP-MW107E-143145

1300 Collect SP-MW107D-198250

2/16/58

1330 Collect SP-MW106I - 143145

1340 Collect SP-MW106D - 143195

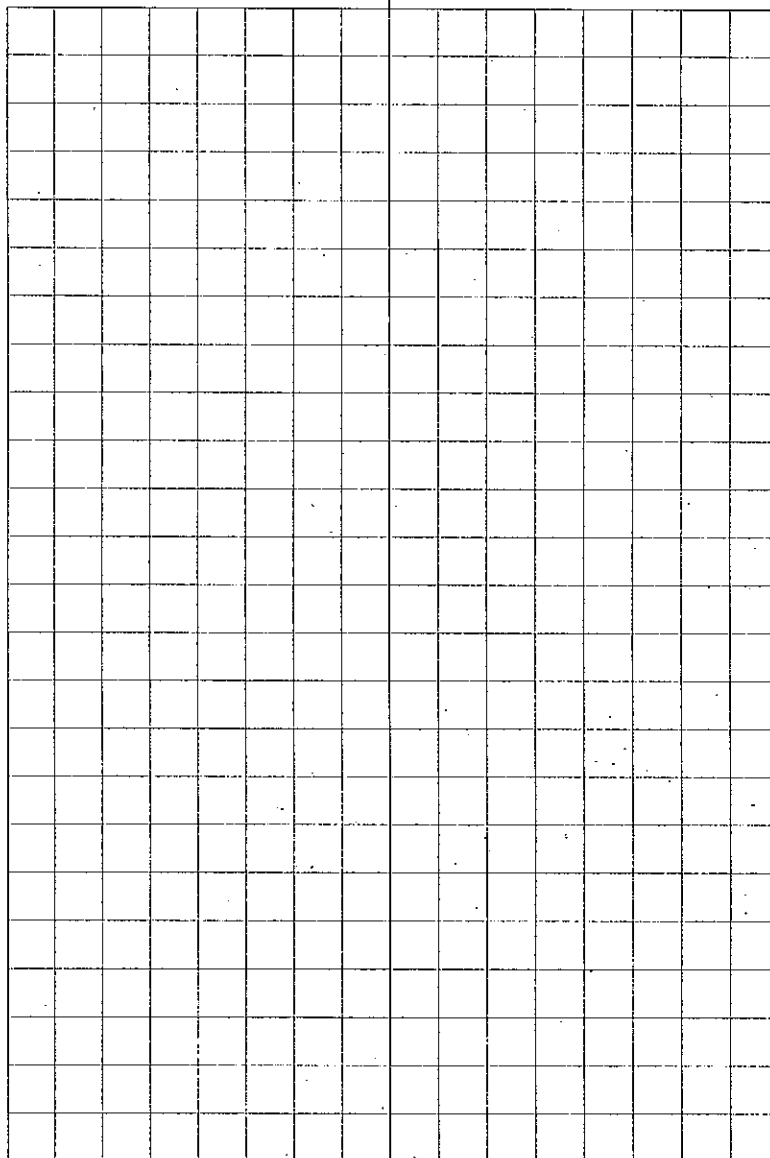
1345 Depart site

1405 Had deliver Samples to ALS

return to office

return sampling equipment

ML



5-POINTS GROUNDWATER SAMPLING FORM

Monitoring Well	QA/ QC	Sample Date	Sample Time	pH	Temp °C	Cond $\mu S/cm$	ORP mV	DO mg/L	Comments
MW 1-2004	NA	2/16/18	1010	7.07	12.5	1.66	191.1	7.22	
MW 2-2004	NA	2/16/18	955	7.04	12.0	1.49	199.5	6.78	
MW-101	FD	2/16/18	835/900	7.19	10.9°	1.52	230.1	8.65	"Y" after sample is FD / Flushment needs repair
MW-103	NA	2/16/18	940	6.96	12.1	1.88	208.8	7.32	
MW 104	NA	2/16/18	1025	7.16	12.2	1.76	181.3	7.01	
MW 105	MS/MSD	2/16/18	910	7.22	10.2	1.80	209.7	8.51	
MW 106i	NA	2/16/18	1330	7.30	12.6	1.35	-38.7	1.89	
MW 106d	NA	2/16/18	1340	7.39	12.7	1.29	12.2	4.17	
MW 107i	NA	2/16/18	1245	7.29	11.8	0.99	69.3	4.45	
MW 107d	NA	2/16/18	1300	7.41	12.7	0.84	-100.3	2.60	
MW-108i	NA	2/16/18	1200	7.19	10.9	1.53	-118.4	1.31	
MW-108D	NA	2/16/18	1210	7.19	10.8	1.47	-16.0	4.77	
MW-109i	NA	2/16/18	1120	7.47	11.1	1.18	-117.4	2.44	
MW-109D	NA	2/16/18	1130	7.38	11.8	1.32	-3.6	4.31	
MW-110i	NA	2/16/18	1045	7.57	10.4	0.84	162.4	5.65	
MW-110D	NA	2/16/18	1055	7.44	9.7	0.93	165.1	5.29	

Comments/Notes

LOCK #: 3210

Sampling Personnel: 

Page 1 of 1

NS = Not Sampled

AECOM

5-POINTS GROUNDWATER SAMPLING FORM

Monitoring Well	Sample (Yes/No)	Screen Interval (ft BGS)	Water Level Date	Depth to Water	Total Depth	Proposed Sample Depth (Hydrasleeve ft BTWC)	Actual Hydrasleeve Set Depth	Hydrasleeve Set Date	Hydrasleeve Set Time	QA/QC (include TB per cooler)	Sample Date	Sample Time	Comments
MW 1-2004	Yes	82-112	1/17/18	103.52	110.51	112	107-107	1/17/18	950	NA	2/16/18	1010	
MW 2-2004	Yes	90-116	1/17/18	106.61	114.25	111	109-111	1/17/18	940	NA	2/16/18	955	
MW-101	Yes	155-185	1/17/18	145.81	155.12	158	149-151	1/17/18	845	FD	2/16/18	835 200X FD	Flushmont damaged, needs repair
MW-102	No	115-135	1/17/18	109.84	134.09								
MW-103	Yes	105-125	1/17/18	106.68	124.80	116	114-116	1/17/18	920	NA	2/16/18	940	
MW 104	Yes	115-135	1/17/18	87.72	135.25	120	115-120	1/17/18	1000	NA	2/16/18	1025	
MW 105	Yes	136-156	1/17/18	131.25	153.09	146	144-146	1/17/18	905	MS/MSD	2/16/18	916	
MW 106s	No	60-70	1/17/18	53.91	62.29								
MW 106i	Yes	138-148	1/17/18	55.91	145.58	145	143-145	1/17/18	1020	NA	2/16/18	1330	
MW 106d	Yes	188-198	1/17/18	55.91	198.10	195	193-195	1/17/18	1040	NA	2/16/18	1340	
MW 107s	No	60-70	1/17/18	50.90	60.88								
MW 107i	Yes	138-148	1/17/18	56.48	148.18	145	143-145	1/17/18	1100	NA	2/16/18	1245	
MW 107d	Yes	193-203	1/17/18	56.54	205.08	200	198-200	1/17/18	1115	NA	2/16/18	1300	
MW-108i	Yes	140-150	1/17/18	35.95	157.60	149	147-149	1/17/18	1135	NA	2/16/18	1200	
MW-108D	Yes	204-214	1/17/18	36.76	217.39	214	212-214	1/17/18	1150	NA	2/16/18	1210	
MW-109i	Yes	160-170	1/17/18	39.99	172.29	169	167-169	1/17/18	1210	NA	2/16/18	1120	
MW-109D	Yes	210-220	1/17/18	46.02	223.30	219	217-219	1/17/18	1230	NA	2/16/18	1130	
MW-110i	Yes	198-208	1/17/18	27.41	211.09	208	206-208	1/17/18	1300	NA	2/16/18	1045	
MW-110D	Yes	292-302	1/17/18	33.34	300+	301	299-301	1/17/18	1325	NA	2/16/18	1055	
Freda 193-196	No	Multiple	1/17/18	35.55	NM								Measure distance from old measuring point
Freda 218-221	No	Multiple											
Freda 333-336	No	Multiple											
WC-2	No	Multiple	1/17/18	70.63	NM								
WC-3	No	220-393	1/17/18	33.21	NM								
WC-4	No	260-380	1/17/18	28.00 *	NM								*new transducer in well, can not E.T. type post, WL from JD, from transducer

Comments/Notes

Update grey highlighted cells based on water level data for current round of sampling (Depths shown are for 8/30/12). Hydrasleeve should be set at 3 feet below top of water.

LOCK #: 3210

Sampling Personnel: 1/16

Page ____ of ____

NS = Not Sampled

NM = Not Measured

NA = Not Applicable

AECOM

1/17/18 WCL#5 DTW 18.24'

WCL2, WCL3, WCL4 and WCL5 pumps off at time of measurement.

Equipment Calibration Form

Project: 5 Ports DLE Plume

Project Number: 60546131.4

Instrument: YSI Pro Plus (R17621)

Model/Serial Number: (R17621) / 141103153

Weather: Clear (in S.F. 67°F)

[illegible][illegible]

Calibration Personnel:

URS



Calibration Certificate

rev 8/9/11

Work Order No.: SE-053970

Date of Service: 2/14/2018 12:00:00 AM

Unit Under Test: YSI Pro Plus Quatro, 4m

Asset No.: FA01786

Serial No: 14H103153

Technician Initials: D.P.

TEST	Specification	Result
Standard Calibration	Pass/Fail	PASS

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
Sodium Sulfite/ Zero DO Standard	Lot No. C473638	1
7.00 mS Conductivity Standard Solution	Lot: 7GL300 Exp:DEC 2018	1
pH 4.00 Standard Solution	Lot No. 800499 Exp.9/19/2019	1
pH 7.00 Standard Solution	Lot No. C801738 Exp. 09/19/19	1
pH 10.00 Standard Solution	Lot No. C800938 Exp. 10/05/2019	1
ORP Standard Solution	Lot No. 17K100603 Exp. 10/24/2022	1

TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.



ALS Environmental

Field Chain-of-Custody Record

CoC #:

Page 1 of 2

Client Name & Address: AECOM 756 E Winchester St #400 SLC, UT 84107				Project Name & No.: 5-Points PLE 60546131.4				<table border="1"> <tr> <th colspan="8">Analyses Requested</th> <th rowspan="2">Preservation Code</th> <th rowspan="2">Sample Matrix Code</th> <th rowspan="2"> Matrix Codes: W) Water B) Bulk L) Liquid F) Filter S) Soil G) Wipe C) Solid M) Media Preservation Codes: 1) Cool to 4°C 2) HCl to pH<2, 4°C 3) H₂SO₄ to pH<2, 4°C 4) HNO₃ to pH<2, 4°C 5) NaOH to pH>12, 4°C 6) ZnOAc/NaOH to pH>9, 4°C Remarks </th> </tr> <tr> <th>No. of Containers</th> <th>Sample for Matrix QC</th> <th>VOL (SOMOL)</th> <th>Temp</th> <th>MS/MSD</th> <th></th> <th></th> <th></th> </tr> </table>								Analyses Requested								Preservation Code	Sample Matrix Code	Matrix Codes: W) Water B) Bulk L) Liquid F) Filter S) Soil G) Wipe C) Solid M) Media Preservation Codes: 1) Cool to 4°C 2) HCl to pH<2, 4°C 3) H ₂ SO ₄ to pH<2, 4°C 4) HNO ₃ to pH<2, 4°C 5) NaOH to pH>12, 4°C 6) ZnOAc/NaOH to pH>9, 4°C Remarks	No. of Containers	Sample for Matrix QC	VOL (SOMOL)	Temp	MS/MSD			
Analyses Requested																Preservation Code	Sample Matrix Code	Matrix Codes: W) Water B) Bulk L) Liquid F) Filter S) Soil G) Wipe C) Solid M) Media Preservation Codes: 1) Cool to 4°C 2) HCl to pH<2, 4°C 3) H ₂ SO ₄ to pH<2, 4°C 4) HNO ₃ to pH<2, 4°C 5) NaOH to pH>12, 4°C 6) ZnOAc/NaOH to pH>9, 4°C Remarks																
No. of Containers	Sample for Matrix QC	VOL (SOMOL)	Temp	MS/MSD																														
ALS Quote No: 34-19059				Report to: Tami Messersmith																														
Phone: 801 904 4000				Report to e-mail: tami.messersmith@aec.com																														
e-mail: 801 904 4100				Bill to: AECOM																														
Field Sample Number	Site ID	Depth	Date/Time	No. of Containers	Sample for Matrix QC	VOL (SOMOL)	Temp	MS/MSD							Preservation Code	Sample Matrix Code	Remarks																	
TB-021618			Lab Prep. Time		X	X									2	W	Trip Blank																	
SP-MW101-149151-4			2/16/18 800	3	X	X									2	W																		
SP-MW101-149151			2/16/18 835	3	X	X									2	W																		
SP-MW105-144146			2/16/18 910	8	X	X	X								2	W	extr. volume for MS/MSD																	
SP-MW103-114116			2/16/18 940	3	X	X									2	W																		
SP-MW2-2004-109111			2/16/18 955	3	X	X									2	W																		
SP-MW1-2004-107109			2/16/18 1010	3	X	X									2	W																		
SP-MW104-118120			2/16/18 1025	3	X	X									2	W																		
SP-MW101-206208			2/16/18 1045	3	X	X									2	W																		
SP-MW110D-299301			2/16/18 1055	3	X	X									2	W																		
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Rad <input type="checkbox"/> Flammable <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown				Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Archive _____ Months <input checked="" type="checkbox"/> Disposal by Lab (fees assessed for samples retained > 3 months)				Data Deliverable: <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 2 <input checked="" type="checkbox"/> Level 4 EDD Type:				Requested Turn Around Time <input type="checkbox"/> 2 Days (Rush) <input type="checkbox"/> 7 Days (Rush) <input type="checkbox"/> 3 Days (Rush) <input checked="" type="checkbox"/> 14 Days (Rush = email data by COB on day due. Surcharges assessed.)																						
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time	Shipped to:																						
				2/16/18	1405					2/16/18	14:07	ALS Environmental 960 West LeVoy Drive Salt Lake City, UT 84123 Phone: (800) 356-9135 Phone: (801) 266-7700 FAX: (801) 268-9992 WEB: www.alsglobal.com																						
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time																							
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time																							

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Yellow - Client Copy



ALS Environmental

Field Chain-of-Custody Record

CoC #:

Page 2 of 2

Client Name & Address: AELOM 756 E Winchester St #400 SLC UT 84107		Project Name & No.: 5 Ports PCE 60546131.4		No. of Containers	Sample for Matrix QC	Analyses Requested								Preservation Code	Sample Matrix Code	Matrix Codes: W) Water B) Bulk L) Liquid F) Filter S) Soil G) Wipe C) Solid M) Media Preservation Codes: 1) Cool to 4°C 2) HCl to pH<2, 4°C 3) H ₂ SO ₄ to pH<2, 4°C 4) HNO ₃ to pH<2, 4°C 5) NaOH to pH>12, 4°C 6) ZnOAc/NaOH to pH>9, 4°C Remarks		
ALS Quote No: 34-19059		Report to: Tammie Messersmith				VOC (SOM 01.2)	temp											
Phone: 801 904 4000		Report to e-mail:																
e-mail: tammie.messersmith@aelom.com		Bill to: AELOM																
Field Sample Number	Site ID	Depth	Date/Time															
SP-MW109I-167169			2/16/18 1120	3		X						2	W					
SP-MW109D-217219			2/16/18 1130	3		X						2	W					
SP-MW108I-147149			2/16/18 1200	3		X						2	W					
SP-MW108D-212214			2/16/18 1210	3		X						2	W					
SP-MW107I-143145			2/16/18 1245	3		X						2	W					
SP-MW107D-198200			2/16/18 1300	3		X						2	W					
SP-MW106I-143145			2/16/18 1330	3		X						2	W					
SP-MW106D-193195			2/16/18 1340	3		X						2	W					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Rad <input type="checkbox"/> Flammable <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown				Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Archive _____ Months <input checked="" type="checkbox"/> Disposal by Lab (fees assessed for samples retained > 3 months)				Data Deliverable: <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 2 <input checked="" type="checkbox"/> Level 4				Requested Turn Around Time <input type="checkbox"/> 2 Days (Rush) <input type="checkbox"/> 7 Days (Rush) <input type="checkbox"/> 3 Days (Rush) <input checked="" type="checkbox"/> 14 Days (Rush = email data by COB on day due. Surcharges assessed.)						
				Carrier/Airbill #:														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Shipped to:										
		2/14/18	1405			2/14/18	1407	ALS Environmental										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	960 West LeVoy Drive										
								Salt Lake City, UT 84123										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Phone: (800) 356-9135										
								Phone: (801) 266-7700										
								FAX: (801) 268-9992										
								WEB: www.alsglobal.com										

White - Laboratory Copy

Yellow - Client Copy



Attachment 2
Electronic Data Deliverable
For February 16, 2018 Data
(Excel File Included with emailed Deliverable)



Attachment 3
Data Validation Report

FIVE POINTS PCE PLUME SITE

QC Sample Evaluation

Data Package Number: TV216-97756 (1804773)

Sampling Event Dates: February 16, 2018

Sample-specific Parameter Review/Laboratory Performance Parameters: Yes

Full Validation (e.g. result recalculation): No

Data Reviewer: Joseph Capotrio, URS Chemist

Date Completed: April 9, 2018

Peer Reviewer: Sheri Fling, URS Quality Assurance Manager (QAM)

The table below summarizes the data package and sample identifications discussed in this data review.

Field Identification	Sample Type	Lab Identification	Matrix	VOCs Method SOM02.4
TB-021618	TB	1804773001	Water	X
5P-MW101-149151-Y*	SA	1804773002	Water	X
5P-MW101-149151	SA	1804773003	Water	X
5P-MW105-144146	SA	1804773004	Water	X ^m
5P-MW103-144146	SA	1804773007	Water	X
5P-MW2-2004-109111	SA	1804773008	Water	X
5P-MW1-2004-107109	SA	1804773009	Water	X
5P-MW104-118120	SA	18047730010	Water	X
5P-MW110I-206208	SA	1804773011	Water	X
5P-MW110D-299301	SA	1804773012	Water	X
5P-MW109I-167169	SA	1804773013	Water	X
5P-MW109D-217219	SA	1804773014	Water	X
5P-MW108I-147149	SA	1804773015	Water	X
5P-MW108D-212214	SA	1804773016	Water	X
5P-MW107I-143145	FD	1804773017	Water	X
5P-MW107D-198200	SA	1804773018	Water	X
5P-MW106I-143145	SA	1804773019	Water	X
5P-MW106D-193195	SA	1804773020	Water	X

* - The sample ID was corrected from 5P-MW101-149151-T to 5P-MW101-149151-Y to reflect the proper nomenclature.

Sample Type: FD – Field Duplicate SA – Sample TB – Trip Blank
VOCs – Volatile Organic Compounds
SOM02.4 – Contract Laboratory Program Method for Multi-Media, Multi-Concentration Organics Analysis
X^m – Matrix Spike/Matrix Spike Duplicate

The data review was conducted in accordance with the Quality Assurance Project Plan for the Remedial Design at the Five Points PCE Plume Site, Davis County, Utah (AECOM, March

2018), method requirements, and with guidance from National Functional Guidelines for Superfund Organic Methods Data Review (EPA, 2017).

General Overall Assessment:

_____ Data are usable without qualification.

 X Data are usable with qualification (See Attachment 1: Qualified Data Sheets)

_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any laboratory case narrative comments concerning data qualification were addressed in the table below.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	No	<p>With the exceptions noted below, the samples were received by ALS in Salt Lake City Utah in good condition and were consistent with the accompanying chain of custody (COC). Due to the stability of the metals parameters, temperature preservation was not required.</p> <p>The laboratory noted that custody seals were not present on the associated coolers. As the coolers were dropped off by the sampler, who maintained custody throughout the sampling event, further action was not required.</p> <p>Sample 5P-MW101-149151-Y was inadvertently logged in by the laboratory as 5P-MW101-149151-T. The field identification was updated to reflect the proper nomenclature.</p>
Items noted in Case Narrative	Yes	As per the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) Statement of Work SOM02.4, alkanes were not reported separately but were reported as total alkanes. "Total alkanes" were not reported as detected in the associated samples.
Holding Times	Yes	The samples were analyzed within the method required holding time.
Laboratory Blanks <ul style="list-style-type: none"> Method Blank 	No	Target analytes were not detected within the method blanks. Tentatively identified compounds (TICs) were reported as detected in method blank VBLKT2. The detected TIC compounds were not reported as detected in the associated sample; therefore, qualification of data was not considered necessary.
Matrix Quality Control <ul style="list-style-type: none"> Matrix Spike/ Matrix Spike Duplicate 5P-MW105-144146 	Yes	<p>Matrix Spike/ Matrix Spike Duplicate (MS/MSD)</p> <p>The frequency of MS/MSD samples met the quality assurance project plan (QAPP) requirement of one per twenty samples.</p> <p>The MS/MSD recoveries and relative percent differences (RPDs) met the laboratory limits,</p> <p>The MS spike solutions used by the laboratory contained the minimum analyte list contained in the respective method. Because a subset of target analytes for these analyses were included in the spike solution used by the laboratory, there is no direct measure of the accuracy for the other compounds for these analyses; however, an acceptable level of accuracy with respect to the analytical method can be inferred by acceptable deuterated monitoring compound recovery and MS/MSD results for spiked analytes.</p>

Review Parameter	Criteria Met?	Comment
Laboratory Performance <ul style="list-style-type: none"> Deuterated Monitoring Compound Recovery Internal Standards Recoveries Initial Calibration Initial and/or continuing Calibration Verification Instrument Performance Check 	Yes	<p>Deuterated Monitoring Compounds The deuterated monitoring compounds recoveries met the method criteria. Data qualification was not required.</p> <p>Internal Standards Recoveries The internal standard recoveries met the method criteria. Data qualification was not required.</p> <p>Initial Calibration The five point initial calibration curve met the method criteria. Qualification of data was not required.</p> <p>Calibration Verification Initial and continuing calibration verification percent differences met the method criteria. Qualification of data was not required.</p> <p>Instrument Performance Check The instrument performance check met the method criteria. Data qualification was not required.</p>
Tentatively Identified Compounds	Yes	<p>A TIC search was conducted in association with the volatile organic compound (VOC) analysis for all samples in this package. If the TIC library search resulted in a 85% or greater match to the reference spectrum and the TIC was reported as an identified compound, the TIC result was qualified as estimated (J ID-I). If the quality of the match was less than 85% or the analyte was reported as an “unknown”, the TIC result was qualified as tentatively identified and estimated (NJ ID-I).</p>
Field Quality Control <ul style="list-style-type: none"> Trip Blank TB-021618 Field Duplicate 5P-MW101-149151-Y / 5P-MW101-149151 Equipment Blank NA 	Yes	<p>Trip Blank No target analytes were detected in the trip blank sample analyzed in association with the samples reported in this data package. Data qualification was not required.</p> <p>Field Duplicate The frequency of field duplicates met the QAPP requirement of one per twenty samples. The comparison between results of the field duplicate pair met the criteria listed below.</p> <ul style="list-style-type: none"> When both the sample and duplicate values are >5x the reporting limit (RL), acceptable sampling and analytical precision is indicated by an RPD between the results of $\leq 30\%$. Where the result for one or both analytes of the field duplicate pair is <5xRL, satisfactory precision is indicated if the absolute difference between the field duplicate results is <2xRL. <p>Equipment Blank Equipment blanks are not required for Hydrasleeve sampling work, as Hydrasleeves are designed for one-time use.</p>

Review Parameter	Criteria Met?	Comment
Reporting Limits Met?	Yes	<p>No results were reported as non-detect at elevated RLs.</p> <p>Sample 5P-MW101-149151 was re-analyzed at a 2X dilution due to the tetrachloroethene result exceeding the calibration range. Results were selected for reporting using the following criteria:</p> <ul style="list-style-type: none"> • Only results within calibration range were selected for reporting. • If both results were non-detect, the non-detect result with the lower reporting limit was selected. • If both results were reported as detected, the higher detected result was selected for reporting. • If one result is reported as non-detect and the other result is reported as detected, the detected result is selected for reporting.
PARCC Parameters		
Precision	Yes	The MS/MSD results and field duplicate result RPDs satisfied the applicable precision criteria. As such, the overall level of precision demonstrated is considered to be acceptable.
Accuracy	Yes	The deuterated monitoring compound recoveries and MS/MSD recoveries satisfied the applicable evaluation criteria for accuracy, which indicates that the overall accuracy attained with respect to method and to the site matrix is acceptable for VOCs
Representativeness	Yes	Sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition.
Completeness	Yes	The data are considered usable as qualified. As such, the completeness for this investigation is 100%, which exceeds the QAPP-listed completeness requirement of 90% for each sampling event.
Comparability	Yes	Comparability was maintained by consistency in sampling conditions, selection of sampling procedures, sample preservation methods, analytical methods, and data reporting units.
Sensitivity	Yes	Non-detect results were reported to the reporting limit (RL) To reflect the higher degree of quantitative uncertainty associated with positive results reported between the method detections limit (MDL) and RL, were qualified as estimated (J SQL-I).

> – Greater Than

≤ – Less Than or equal to

% – Percent

CLP – Contract Laboratory Program

COC – Chain of Custody

I – Indeterminate Bias

ID – Identification

J – Estimated Result

MDL – Method Detection Limit

MS/MSD – Matrix Spike/ Matrix Spike Duplicate

NJ – Analyte of tentative identification

QAPP – Quality Assurance Project Plan

RL – Reporting Limit

RPDs – Relative Percent Differences

SQL – Sample Quantitation Limit

TICs – Tentatively Identified Compounds

VOCs – Volatile Organic Compounds

USEPA – United States Environmental Protection Agency

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW101-149151

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773003
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: E174I003
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/22/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	J SQL-I 0.17	J
108-87-2	Methylcyclohexane	0.50	U

4/9/18

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW101-149151

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773003
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI74I003
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/22/2018
Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	J SQL-I 0.22	J
127-18-4	Tetrachloroethene	DNR 21.	E
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Handwritten signature
4/9/18

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW101-149151

Lab Name: ALS Environmental (SLC)
Lab Code: ALS Case No.: 5Points
Analytical Method: Trace VOA
Matrix: WATER
Sample wt/vol: 25.0 (g/mL) mL
% Solids: _____
GC Column: RTX-VMS ID: 0.25 (mm)
Extract Concentrated:(Y/N) _____
Soil Aliquot (VOA): _____ (uL)
Heated Purge:(Y/N) Y
Purge Volume: 25.0 (mL)
Cleanup Types: _____
Concentration Units (ug/L, ug/kg): ug/L

Contract: 97756
MA No.: _____ SDG No.: TV216
Level: TRACE
Lab Sample ID: 1804773003
Lab File ID: EI74I003
Date Received: 02/16/2018
Date Extracted: _____
Date Analyzed: 02/22/2018
Extract Volume: _____ (uL)
Extraction Type: PT
Injection Volume: _____ (uL)
pH: 1.0 Dilution Factor: 1.0
Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW101-149151DL

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773003DL
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I003
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/20/2018
Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 2.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	DNR 1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	1.0	U
79-20-9	Methyl acetate	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
110-82-7	Cyclohexane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
108-87-2	Methylcyclohexane	1.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW101-149151DL

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773003DL
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: E166I003
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/20/2018
Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 2.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	DNR 1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	13.	D
591-78-6	2-Hexanone	DNR 10.	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
179601-23-1	m,p-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

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FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW101-149151DL

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1804773003DL
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I003
 % Solids: _____ Date Received: 02/16/2018
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 Extract Concentrated: (Y/N) _____ Date Analyzed: 02/20/2018
 Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)
 Heated Purge: (Y/N) Y Extraction Type: PT
 Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)
 Cleanup Types: _____ pH: 1.0 Dilution Factor: 2.0
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW101-149151-1 Y

4/9/18

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773002
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI74I002
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/22/2018
Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	J SQL-I 2.5	J
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	J SQL-I 0.10	J
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-HW101-149151-~~Y~~ *4/9/18*

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773002
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: E174I002
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/22/2018
Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	13.	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW101-149151-~~Y~~ *4/9/18*

Lab Name: <u>ALS Environmental (SLC)</u>	Contract: <u>97756</u>
Lab Code: <u>ALS</u> Case No.: <u>5Points</u>	MA No.: _____ SDG No.: <u>TV216</u>
Analytical Method: <u>Trace VOA</u>	Level: <u>TRACE</u>
Matrix: <u>WATER</u>	Lab Sample ID: <u>1804773002</u>
Sample wt/vol: <u>25.0</u> (g/mL) <u>mL</u>	Lab File ID: <u>E174I002</u>
% Solids: _____	Date Received: <u>02/16/2018</u>
GC Column: <u>RTX-VMS</u> ID: <u>0.25</u> (mm)	Date Extracted: _____
Extract Concentrated:(Y/N) _____	Date Analyzed: <u>02/22/2018</u>
Soil Aliquot (VOA): _____ (uL)	Extract Volume: _____ (uL)
Heated Purge:(Y/N) <u>Y</u>	Extraction Type: <u>PT</u>
Purge Volume: <u>25.0</u> (mL)	Injection Volume: _____ (uL)
Cleanup Types: _____	pH: <u>1.0</u> Dilution Factor: <u>1.0</u>
Concentration Units (ug/L, ug/kg): <u>ug/L</u>	Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
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22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW103-114116

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773007
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I007
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/20/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

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4/9/18

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW103-114116

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1804773007
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I007
 % Solids: _____ Date Received: 02/16/2018
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 02/20/2018
 Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	J SQL-I 0.17	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW103-114116

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1804773007
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I007
 % Solids: _____ Date Received: 02/16/2018
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 Extract Concentrated:(Y/N) _____ Date Analyzed: 02/20/2018
 Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)
 Heated Purge:(Y/N) Y Extraction Type: PT
 Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)
 Cleanup Types: _____ pH: 1.0 Dilution Factor: 1.0
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW104-118120

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773010
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I010
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	J SQL-I 0.31	J
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	J SQL-I 0.16	J
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW104-118120

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773010
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I010
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	5.0	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Handwritten signature
4/9/18

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW104-118120

Lab Name: <u>ALS Environmental (SLC)</u>	Contract: <u>97756</u>
Lab Code: <u>ALS</u> Case No.: <u>5Points</u>	MA No.: _____ SDG No.: <u>TV216</u>
Analytical Method: <u>Trace VOA</u>	Level: <u>TRACE</u>
Matrix: <u>WATER</u>	Lab Sample ID: <u>1804773010</u>
Sample wt/vol: <u>25.0</u> (g/mL) mL	Lab File ID: <u>EI66I010</u>
% Solids: _____	Date Received: <u>02/16/2018</u>
GC Column: <u>RTX-VMS</u> ID: <u>0.25</u> (mm)	Date Extracted: _____
Extract Concentrated:(Y/N) _____	Date Analyzed: <u>02/21/2018</u>
Soil Aliquot (VOA): _____ (uL)	Extract Volume: _____ (uL)
Heated Purge:(Y/N) <u>Y</u>	Extraction Type: <u>PT</u>
Purge Volume: <u>25.0</u> (mL)	Injection Volume: _____ (uL)
Cleanup Types: _____	pH: <u>1.0</u> Dilution Factor: <u>1.0</u>
Concentration Units (ug/L, ug/kg): <u>ug/L</u>	Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW105-144146

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773004
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I004
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/20/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW105-144146

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773004
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I004
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/20/2018
Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	2.6	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW105-144146

Lab Name: <u>ALS Environmental (SLC)</u>	Contract: <u>97756</u>
Lab Code: <u>ALS</u> Case No.: <u>5Points</u>	MA No.: _____ SDG No.: <u>TV216</u>
Analytical Method: <u>Trace VOA</u>	Level: <u>TRACE</u>
Matrix: <u>WATER</u>	Lab Sample ID: <u>1804773004</u>
Sample wt/vol: <u>25.0</u> (g/mL) <u>mL</u>	Lab File ID: <u>EI66I004</u>
% Solids: _____	Date Received: <u>02/16/2018</u>
GC Column: <u>RTX-VMS</u> ID: <u>0.25</u> (mm)	Date Extracted: _____
Extract Concentrated:(Y/N) _____	Date Analyzed: <u>02/20/2018</u>
Soil Aliquot (VOA): _____ (uL)	Extract Volume: _____ (uL)
Heated Purge:(Y/N) <u>Y</u>	Extraction Type: <u>PT</u>
Purge Volume: <u>25.0</u> (mL)	Injection Volume: _____ (uL)
Cleanup Types: _____	pH: <u>1.0</u> Dilution Factor: <u>1.0</u>
Concentration Units (ug/L, ug/kg): <u>ug/L</u>	Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
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24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW106D-193195

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773020
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I020
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW106D-193195

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773020
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I020
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	J SQL-I 0.38	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW106D-193195

Lab Name: ALS Environmental (SLC)
Lab Code: ALS Case No.: 5Points
Analytical Method: Trace VOA
Matrix: WATER
Sample wt/vol: 25.0 (g/mL) mL
% Solids: _____
GC Column: RTX-VMS ID: 0.25 (mm)
Extract Concentrated:(Y/N) _____
Soil Aliquot (VOA): _____ (uL)
Heated Purge:(Y/N) Y
Purge Volume: 25.0 (mL)
Cleanup Types: _____
Concentration Units (ug/L, ug/kg): ug/L

Contract: 97756
MA No.: _____ SDG No.: TV216
Level: TRACE
Lab Sample ID: 1804773020
Lab File ID: EI66I020
Date Received: 02/16/2018
Date Extracted: _____
Date Analyzed: 02/21/2018
Extract Volume: _____ (uL)
Extraction Type: PT
Injection Volume: _____ (uL)
pH: 1.0 Dilution Factor: 1.0
Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW106I-143145

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773019
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I019
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	J SQL-I 0.10	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

4/9/18

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW106I-143145

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1804773019
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I019
 % Solids: _____ Date Received: 02/16/2018
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	2.0	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW106I-143145

Lab Name: ALS Environmental (SLC)
Lab Code: ALS Case No.: 5Points
Analytical Method: Trace VOA
Matrix: WATER
Sample wt/vol: 25.0 (g/mL) mL
% Solids: _____
GC Column: RTX-VMS ID: 0.25 (mm)
Extract Concentrated: (Y/N) _____
Soil Aliquot (VOA): _____ (uL)
Heated Purge: (Y/N) Y
Purge Volume: 25.0 (mL)
Cleanup Types: _____
Concentration Units (ug/L, ug/kg): ug/L

Contract: 97756
MA No.: _____ SDG No.: TV216
Level: TRACE
Lab Sample ID: 1804773019
Lab File ID: EI66I019
Date Received: 02/16/2018
Date Extracted: _____
Date Analyzed: 02/21/2018
Extract Volume: _____ (uL)
Extraction Type: PT
Injection Volume: _____ (uL)
pH: 1.0 Dilution Factor: 1.0
Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
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25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW107D-198200

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773018
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I018
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW107D-198200

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773018
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I018
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	2.0	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW107D-198200

Lab Name: <u>ALS Environmental (SLC)</u>	Contract: <u>97756</u>
Lab Code: <u>ALS</u> Case No.: <u>5Points</u>	MA No.: _____ SDG No.: <u>TV216</u>
Analytical Method: <u>Trace VOA</u>	Level: <u>TRACE</u>
Matrix: <u>WATER</u>	Lab Sample ID: <u>1804773018</u>
Sample wt/vol: <u>25.0</u> (g/mL) <u>mL</u>	Lab File ID: <u>EI66I018</u>
% Solids: _____	Date Received: <u>02/16/2018</u>
GC Column: <u>RTX-VMS</u> ID: <u>0.25</u> (mm)	Date Extracted: _____
Extract Concentrated: (Y/N) _____	Date Analyzed: <u>02/21/2018</u>
Soil Aliquot (VOA): _____ (uL)	Extract Volume: _____ (uL)
Heated Purge: (Y/N) <u>Y</u>	Extraction Type: <u>PT</u>
Purge Volume: <u>25.0</u> (mL)	Injection Volume: _____ (uL)
Cleanup Types: _____	pH: <u>1.0</u> Dilution Factor: <u>1.0</u>
Concentration Units (ug/L, ug/kg): <u>ug/L</u>	Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW107I-143145

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773017
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I017
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

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4/8/18

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW107I-143145

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773017
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I017
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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4/8/18

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW107I-143145

Lab Name: ALS Environmental (SLC)
Lab Code: ALS Case No.: 5Points
Analytical Method: Trace VOA
Matrix: WATER
Sample wt/vol: 25.0 (g/mL) mL
% Solids: _____
GC Column: RTX-VMS ID: 0.25 (mm)
Extract Concentrated:(Y/N) _____
Soil Aliquot (VOA): _____ (uL)
Heated Purge:(Y/N) Y
Purge Volume: 25.0 (mL)
Cleanup Types: _____
Concentration Units (ug/L, ug/kg): ug/L

Contract: 97756
MA No.: _____ SDG No.: TV216
Level: TRACE
Lab Sample ID: 1804773017
Lab File ID: EI66I017
Date Received: 02/16/2018
Date Extracted: _____
Date Analyzed: 02/21/2018
Extract Volume: _____ (uL)
Extraction Type: PT
Injection Volume: _____ (uL)
pH: 1.0 Dilution Factor: 1.0
Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
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11					
12					
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19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

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418113

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW108D-212214

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773016
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I016
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW108D-212214

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1804773016
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I016
 % Solids: _____ Date Received: 02/16/2018
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
 Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	3.0	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW108D-212214

Lab Name: <u>ALS Environmental (SLC)</u>	Contract: <u>97756</u>
Lab Code: <u>ALS</u> Case No.: <u>5Points</u>	MA No.: _____ SDG No.: <u>TV216</u>
Analytical Method: <u>Trace VOA</u>	Level: <u>TRACE</u>
Matrix: <u>WATER</u>	Lab Sample ID: <u>1804773016</u>
Sample wt/vol: <u>25.0</u> (g/mL) <u>mL</u>	Lab File ID: <u>EI66I016</u>
% Solids: _____	Date Received: <u>02/16/2018</u>
GC Column: <u>RTX-VMS</u> ID: <u>0.25</u> (mm)	Date Extracted: _____
Extract Concentrated: (Y/N) _____	Date Analyzed: <u>02/21/2018</u>
Soil Aliquot (VOA): _____ (uL)	Extract Volume: _____ (uL)
Heated Purge: (Y/N) <u>Y</u>	Extraction Type: <u>PT</u>
Purge Volume: <u>25.0</u> (mL)	Injection Volume: _____ (uL)
Cleanup Types: _____	pH: <u>1.0</u> Dilution Factor: <u>1.0</u>
Concentration Units (ug/L, ug/kg): <u>ug/L</u>	Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW108I-147149

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773015
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I015
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	J SQL-I 0.16	J
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW108I-147149

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1804773015
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I015
 % Solids: _____ Date Received: 02/16/2018
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
 Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	J SQL-I 0.35	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW108I-147149

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773015
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I015
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
Extract Concentrated: (Y/N) _____ Date Analyzed: 02/21/2018
Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)
Heated Purge: (Y/N) Y Extraction Type: PT
Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)
Cleanup Types: _____ pH: 1.0 Dilution Factor: 1.0
Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01		Unknown Carbonyl sulfide	1.63	NJ ID - I 5.1	J
02	75-08-1	Ethanethiol	2.83	J ID - I 0.96	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW109D-217219

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773014
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I014
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	J SQL-I 0.18	J
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW109D-217219

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773014
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I014
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.98	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW109D-217219

Lab Name: ALS Environmental (SLC)
Lab Code: ALS Case No.: 5Points
Analytical Method: Trace VOA
Matrix: WATER
Sample wt/vol: 25.0 (g/mL) mL
% Solids: _____
GC Column: RTX-VMS ID: 0.25 (mm)
Extract Concentrated: (Y/N) _____
Soil Aliquot (VOA): _____ (uL)
Heated Purge: (Y/N) Y
Purge Volume: 25.0 (mL)
Cleanup Types: _____
Concentration Units (ug/L, ug/kg): ug/L

Contract: 97756
MA No.: _____ SDG No.: TV216
Level: TRACE
Lab Sample ID: 1804773014
Lab File ID: EI66I014
Date Received: 02/16/2018
Date Extracted: _____
Date Analyzed: 02/21/2018
Extract Volume: _____ (uL)
Extraction Type: PT
Injection Volume: _____ (uL)
pH: 1.0 Dilution Factor: 1.0
Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
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24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

AL
418113

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW109I-167169

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773013
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I013
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW109I-167169

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773013
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I013
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.73	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW109I-167169

Lab Name: ALS Environmental (SLC)
Lab Code: ALS Case No.: 5Points
Analytical Method: Trace VOA
Matrix: WATER
Sample wt/vol: 25.0 (g/mL) mL
% Solids: _____
GC Column: RTX-VMS ID: 0.25 (mm)
Extract Concentrated: (Y/N) _____
Soil Aliquot (VOA): _____ (uL)
Heated Purge: (Y/N) Y
Purge Volume: 25.0 (mL)
Cleanup Types: _____
Concentration Units (ug/L, ug/kg): ug/L

Contract: 97756
MA No.: _____ SDG No.: TV216
Level: TRACE
Lab Sample ID: 1804773013
Lab File ID: EI66I013
Date Received: 02/16/2018
Date Extracted: _____
Date Analyzed: 02/21/2018
Extract Volume: _____ (uL)
Extraction Type: PT
Injection Volume: _____ (uL)
pH: 1.0 Dilution Factor: 1.0
Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01		Unknown Carbonyl sulfide	1.63	NJ ID - I 1.1	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW110D-299301

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773012
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I012
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	J SQL-I 2.6	J
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW110D-299301

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773012
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI661012
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.67	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

AL
4/5/18

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW110D-299301

Lab Name: <u>ALS Environmental (SLC)</u>	Contract: <u>97756</u>
Lab Code: <u>ALS</u> Case No.: <u>5Points</u>	MA No.: _____ SDG No.: <u>TV216</u>
Analytical Method: <u>Trace VOA</u>	Level: <u>TRACE</u>
Matrix: <u>WATER</u>	Lab Sample ID: <u>1804773012</u>
Sample wt/vol: <u>25.0</u> (g/mL) mL	Lab File ID: <u>EI66I012</u>
% Solids: _____	Date Received: <u>02/16/2018</u>
GC Column: <u>RTX-VMS</u> ID: <u>0.25</u> (mm)	Date Extracted: _____
Extract Concentrated:(Y/N) _____	Date Analyzed: <u>02/21/2018</u>
Soil Aliquot (VOA): _____ (uL)	Extract Volume: _____ (uL)
Heated Purge:(Y/N) <u>Y</u>	Extraction Type: <u>PT</u>
Purge Volume: <u>25.0</u> (mL)	Injection Volume: _____ (uL)
Cleanup Types: _____	pH: <u>1.0</u> Dilution Factor: <u>1.0</u>
Concentration Units (ug/L, ug/kg): <u>ug/L</u>	Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
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11					
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22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

AL
4/8/18

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW110I-206208

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773011
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I011
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	J SQL-I 1.6	J
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW110I-206208

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773011
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I011
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/21/2018
Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW110I-206208

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1804773011
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I011
 % Solids: _____ Date Received: 02/16/2018
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 Extract Concentrated: (Y/N) _____ Date Analyzed: 02/21/2018
 Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)
 Heated Purge: (Y/N) Y Extraction Type: PT
 Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)
 Cleanup Types: _____ pH: 1.0 Dilution Factor: 1.0
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

SP-MW1-2004-107109

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773009
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I009
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/20/2018
Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	J SQL-I 2.1	J
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	J SQL-I 0.17	J
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	1.4	
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	J SQL-I 0.40	J
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW1-2004-107109

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773009
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I009
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/20/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	3.7	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW1-2004-107109

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1804773009
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I009
 % Solids: _____ Date Received: 02/16/2018
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 Extract Concentrated:(Y/N) _____ Date Analyzed: 02/20/2018
 Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)
 Heated Purge:(Y/N) Y Extraction Type: PT
 Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)
 Cleanup Types: _____ pH: 1.0 Dilution Factor: 1.0
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01		Unknown 1-Hexanol, 2-ethyl-	13.33	NJ ID - I 1.0	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW2-2004-109111

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773008
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I008
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/20/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW2-2004-109111

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773008
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I008
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/20/2018
Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge: (Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	J SQL-I 0.19	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW2-2004-109111

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1804773008
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I008
 % Solids: _____ Date Received: 02/16/2018
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 Extract Concentrated:(Y/N) _____ Date Analyzed: 02/20/2018
 Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)
 Heated Purge:(Y/N) Y Extraction Type: PT
 Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)
 Cleanup Types: _____ pH: 1.0 Dilution Factor: 1.0
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

TB-021618

Lab Name: ALS Environmental (SLC) Contract: 97756
Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
Analytical Method: Trace VOA Level: TRACE
Matrix: WATER Lab Sample ID: 1804773001
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I001
% Solids: _____ Date Received: 02/16/2018
GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
GC Column: _____ ID: _____ (mm) Date Analyzed: 02/20/2018
Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
Cleanup Types: _____ Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

TB-021618

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1804773001
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I001
 % Solids: _____ Date Received: 02/16/2018
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 02/20/2018
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-021618

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5Points MA No.: _____ SDG No.: TV216
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1804773001
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: EI66I001
 % Solids: _____ Date Received: 02/16/2018
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 Extract Concentrated:(Y/N) _____ Date Analyzed: 02/20/2018
 Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)
 Heated Purge:(Y/N) Y Extraction Type: PT
 Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)
 Cleanup Types: _____ pH: 1.0 Dilution Factor: 1.0
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.